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Lee et al. Attorney Docket No.: JHU1440-1

Application No.: 09/485,045

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Listing of the Claims

This listing of claims includes no claim amendments or cancellations.

- 1. (Withdrawn): Substantially pure growth differentiation factor-16 (GDF-16).
- 2. (Previously Presented): An isolated polynucleotide sequence encoding the growth differentiation factor-16 (GDF-16) polypeptide as set forth in SEQ ID NO: 2.
 - 3. (Canceled)
- 4. (Previously Presented): The polynucleotide sequence of claim 2, wherein the polynucleotide is isolated from a mammalian cell.
- 5. (Previously Presented): The polynucleotide of claim 4, wherein the mammalian cell is selected from the group consisting of mouse, rat, and human cell.
 - 6. (Previously Presented): An expression vector including the polynucleotide of claim 2.
 - 7. (Previously Presented): The vector of claim 6, wherein the vector is a plasmid.
 - 8. (Previously Presented): The vector of claim 6, wherein the vector is a virus.
 - 9. (Previously Presented): A host cell stably transformed with the vector of claim 6.
 - 10. (Previously Presented): The host cell of claim 9, wherein the cell is prokaryotic.
 - 11. (Previously Presented): The host cell of claim 9, wherein the cell is eukaryotic.

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- 12. (Withdrawn): Antibodies that bind to the polypeptide of claim 1 or fragments thereof.
 - 13. (Withdrawn): The antibodies of claim 12, wherein the antibodies are polyclonal

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- 14. (Withdrawn): The antibodies of claim 12, wherein the antibodies are monoclonal.
- 15. (Withdrawn): A method of detecting a cell proliferative disorder comprising contacting the antibody of claim 12 with a specimen of a subject suspected of having a GDF-16 associated disorder and detecting binding of the antibody.
 - 16. (Withdrawn): The method of claim 15, wherein the detecting is in vivo.
 - 17. (Withdrawn): The method of claim 16, wherein the antibody is detectably labeled.
- 18. (Withdrawn): The method of claim 17, wherein the detectable label is selected from the group consisting of a radioisotope, a fluorescent compound, a bioluminescent compound and a chemiluminescent compound.
 - 19. (Withdrawn): The method of claim 15, wherein the detection is in vztro.
 - 20. (Withdrawn): The method of claim 19, wherein the antibody is detectably labeled.
- 21. (Withdrawn): The method of claim 20, wherein the label is selected from- the group consisting of a radioisotope, a fluorescent compound, a bioluminescent compound, a chemoluminescent compound and an enzyme.
- 22. (Withdrawn): A method of treating a cell proliferative disorder or immunologic disorder associated with expression of GDF-16, comprising contacting the cells with a reagent which suppresses the GDF-16 activity.

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- 23. (Withdrawn): The method of claim 22, wherein the reagent is an anti-GDF- 16 antibody.
- 24. (Withdrawn): The method of claim 22, wherein the reagent is a GDF-16 antisense sequence.
- 25. (Withdrawn): The method of claim 22, wherein the reagent which suppresses GDF-16 activity is introduced to a cell using a vector.
- 26. (Withdrawn): The method of claim 25, wherein the vector is a colloidal dispersion system.
- 27. (Withdrawn): The method of claim 26, wherein the colloidal dispersion system is a liposome.
- 28. (Withdrawn): The method of claim 27, wherein the liposome is essentially target specific.
- 29. (Withdrawn): The method of claim 28, wherein the liposome is anatomically targeted.
- 30. (Withdrawn): The method of claim 29, wherein the liposome is mechanistically targeted.
 - 31. (Withdrawn): The method of claim 30, wherein the mechanistic targeting is passive.
 - 32. (Withdrawn): The method of claim 30, wherein the mechanistic targeting is active.
- 33. (Withdrawn): The method of claim 32, wherein the liposome is actively targeted by coupling with a moiety selected Erom the group consisting of a sugar, a glycolipid, and a protein.

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34. (Withdrawn): The method of claim 33, wherein the protein moiety is an antibody.

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- 35. (Withdrawn): The method of claim 34, wherein the vector is a virus.
- 36. (Withdrawn): The method of claim 35, wherein the virus is an RNA virus.
- 37. (Withdrawn): The method of claim 36, wherein the RNA virus is a retrovirus.
- 38. (Withdrawn): The method of claim 37, wherein the retrovirus is essentially target specific.
- 39. (Withdrawn): The method of claim 38, wherein a moiety for target specificity is encoded by a polynucleotide inserted into the retroviral genome.
- 40. (Withdrawn): The method of claim 38, wherein a moiety for target specificity is selected from the group consisting of a sugar, a glycolipid. and a protein.
 - 41. (Withdrawn): The method of claim 40, wherein the protein is an antibody.
 - 42. (Withdrawn): A method for identifying a GDF-16 receptor polypeptide comprising:
 - a) incubating components comprising GDF- 16 polypeptide and a cell expressing a receptor or a soluble receptor under conditions suffkient to allow the GDF-16 to bind to the receptor;
 - b) measuring the binding of the GDF-16 polypeptide to the receptor; and

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c) isolating the receptor. 43. (Canceled) 44. (Canceled). 45. (Canceled). 46. (Canceled). 47. (Canceled). 48. (Canceled). 49. (Canceled). 50. (Canceled). 51. (Canceled). 52. (Canceled). 53. (Previously Presented): An isolated polynucleotide comprising: a) a nucleotide sequence encoding the growth differentiation factor-16 (GDF-16) polypeptide as set forth in SEQ ID NO: 2;

b) a nucleotide sequence according to SEQ ID NO:1, wherein T can also be U; or

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c) a nucleotide sequence complementary to the entire nucleotide sequence of SEQ ID NO:1.

- 54. (Previously Presented): An expression vector including the polynucleotide of claim 53.
 - 55. (Previously Presented): A host cell stably transformed with the vector of claim 54.